

AMENDMENTSIn the Claims

Please amend claims 1, 4, 6-9, 12, 14-15, 17-18, and 20 as shown herein.

5 Claims 1-20 are pending and are listed following:

1. (currently amended) A method for calibrating a printing device, comprising the following steps:

10 (a) performing an on-media calibration, including the following substeps:

(a.1) placing colorant on print media,

(a.2) performing a measurement to obtain on-media calibration measured values of the colorant on the print media, and

15 (a.3) using the on-media calibration measured values to calibrate the printing device;

(b) performing an off-media calibration to obtain off-media calibration measured values of the colorant, the off-media calibration being performed by placing the colorant on other than print media;

20 (c) making a correlation between the on-media calibration measured values of the colorant placed on the print media and the off-media calibration measured values of the colorant placed on other than the print media; and,

25 (d) performing subsequent off-media calibrations by placing the colorant on other than the print media to obtain additional ~~in which~~ the off-media calibration measured values which are used along with the correlation between the on-media calibration measured values and the off-media calibration measured values to calibrate the printing device.

2. (original) A method as in claim 1 wherein in substep (a.1) the colorant is toner.

3. (original) A method as in claim 1 wherein in substep (a.1) the colorant is ink.

4. (currently amended) A method as in claim 1 wherein in substep (a.2) the measurement is performed using at least one of ~~the following~~: a densitometer, a colorimeter, and or a spectrophotometer.

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5. (previously presented) A method as in claim 1 wherein substep (a.3) is performed by varying print parameters of the printing device until the on-media calibration measured values are substantially equal to target measure values determined during manufacture of the printing device.

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6. (currently amended) A method as in claim 1 wherein step (b) includes the following substeps:

(b.1) placing the colorant on a transportation belt of the printing device; and,

20 (b.2) performing a measurement of the colorant on the transportation belt to obtain the off-media calibration measured values.

7. (currently amended) A method as in claim 1 wherein in substep (a.1) the colorant is placed on the print media in half-toned patches.

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8. (currently amended) A method as in claim 7 wherein step
(b) includes the following substeps:

(b.1) placing the colorant on a transportation belt of the printing device,
the placed colorant placed on the transport belt being arranged in half-toned
5 patches that correspond to the half-toned patches placed in substep (a.1); and,
(b.2) performing a measurement of the colorant on the transportation
belt to obtain the off-media calibration measured values.

9. (currently amended) A self-calibrating printing device, comprising:

a printer transportation belt for transporting print media;

5 a marking engine ~~for in the course of normal printing placing~~ configured ~~to apply~~ colorant on print media, ~~the marking engine also for placing colorant on the print media for printing and during on-media calibration, the marking engine further configured to apply the and for placing~~ colorant on the printer transportation belt during off-media calibration; and,

10 a sensing device, ~~wherein during on media calibration, the sensing device performs~~ configured to perform a first measurement to obtain on-media calibration measured values of the colorant applied to the print media, and ~~wherein during off media calibration, the sensing device performs~~ further configured to perform a second measurement to obtain off-media calibration measured values of the colorant applied to the printer transport belt;

15 wherein the self-calibrating printing device uses the on-media calibration measured values of the colorant applied to the print media to calibrate the printing device;

20 wherein the self-calibrating printing device makes a correlation between the on-media calibration measured values of the colorant applied to the print media and the off-media calibration measured values of the colorant applied to the printer transport belt; and,

25 wherein, during subsequent off-media calibrations, the self-calibrating printing device uses the additional off-media calibration measured values of colorant applied to the printer transport belt along with the correlation between the on-media calibration measured values and the off-media calibration measured values to calibrate the printing device.

10. (original) A self-calibrating printing device as in claim 9
wherein the colorant is toner.

11. (original) A self-calibrating printing device as in claim 9
5 wherein the colorant is ink.

12. (currently amended) A self-calibrating printing device as
in claim 9 wherein the sensor comprises at least one of the following: a
densitometer, a colorimeter, and or a spectrophotometer.

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13. (original) A self-calibrating printing device as in claim 9
wherein during on-media calibration, the printing device varies print
parameters until the on-media calibration measured values are substantially
equal to target measure values.

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14. (currently amended) A self-calibrating printing device as
in claim 9 wherein during on-media calibration, the marking engine places
applies the colorant on to the print media in half-toned patches.

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15. (currently amended) A self-calibrating printing device as
in claim 14 wherein during off-media calibration, the colorant placed on
applied to the transportation belt is arranged in half-toned patches that
correspond to the half-toned patches placed on applied to the print media
during on-media calibration.

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16. (original) A self-calibrating printing device as in claim 9
wherein the sensing device comprises a plurality of sensors.

17. (currently amended) A printing device, comprising:

a colorant placing engine configured to place for in the course of normal printing placing colorant on print media, the colorant placing engine also for placing colorant on the print media for printing and during on-media calibration, the colorant placing engine further configured to place the colorant on other than print media during off-media calibration; and,

10 a sensing device, wherein during on-media calibration, the sensing device performs configured to perform a first measurement to obtain on-media calibration measured values of colorant density, and further configured to perform a second measurement to obtain off-media calibration measured values of the colorant density;

15 wherein the printing device uses the on-media calibration measured values to calibrate the printing device;

wherein the printing device makes a correlation between the on-media calibration measured values and the off-media calibration measured values calculated during an initial off-media calibration cycle; and,

20 wherein, during subsequent off-media calibration cycles, the printing device uses the additional off-media calibration measured values along with the correlation between the on-media calibration measured values and the off-media calibration measured values to calibrate the printing device.

18. (currently amended) A printing device as in claim 17 wherein the sensor comprises at least one of the following: a densitometer, a colorimeter, and or a spectrophotometer.

19. (previously presented) A printing device as in claim 17 wherein during on-media calibration, the printing device varies print parameters until the on-media calibration measured values are substantially equal to target measure values determined during manufacture of the printing device.

20. (currently amended) A printing device as in claim 17 wherein during on-media calibration, the colorant placing engine places the colorant on the print media in half-toned patches.

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